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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/735,691	12/16/2003	Nobuyuki Satoh	246701US2	3553
22850 7	590 09/16/2005		EXAM	INER
OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C. 1940 DUKE STREET			РНАМ, НАІ СНІ	
ALEXANDRI			ART UNIT	PAPER NUMBER
			2861	

DATE MAILED: 09/16/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)		
	10/735,691	SATOH, NOBUYUKI	SATOH, NOBUYUKI	
Office Action Summary	Examiner	Art Unit	· · · · · · · · · · · · · · · · · · ·	
	Hai C. Pham	2861°		
The MAILING DATE of this communication Period for Reply	n appears on the cover sheet wi	th the correspondence addre	ess	
A SHORTENED STATUTORY PERIOD FOR R WHICHEVER IS LONGER, FROM THE MAILIN - Extensions of time may be available under the provisions of 37 C after SIX (6) MONTHS from the mailing date of this communicatic - If NO period for reply is specified above, the maximum statutory p - Failure to reply within the set or extended period for reply will, by Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	IG DATE OF THIS COMMUNION (FR 1.136(a). In no event, however, may a roun. Deriod will apply and will expire SIX (6) MON statute, cause the application to become AB	CATION. eply be timely filed THS from the mailing date of this commisandoned (35 U.S.C. § 133).	·	
Status				
1) Responsive to communication(s) filed on 2a) This action is FINAL . 2b) 3) Since this application is in condition for all closed in accordance with the practice un	This action is non-final. lowance except for formal matt		erits is	
Disposition of Claims				
4) Claim(s) 1-9 is/are pending in the applicate 4a) Of the above claim(s) is/are with 5) Claim(s) is/are allowed. 6) Claim(s) 1-5,8 and 9 is/are rejected. 7) Claim(s) 6 and 7 is/are objected to. 8) Claim(s) are subject to restriction as a subject to restriction and the subject to by the Example 2003. Applicant may not request that any objection to Replacement drawing sheet(s) including the country of the subject to by the subject to be subjected to by the subject to the subject	hdrawn from consideration. and/or election requirement. miner. is/are: a) ⊠ accepted or b) □ the drawing(s) be held in abeyar correction is required if the drawing	nce. See 37 CFR 1.85(a). (s) is objected to. See 37 CFR	1.121(d).	
Priority under 35 U.S.C. § 119				
12) Acknowledgment is made of a claim for fo a) All b) Some * c) None of: 1. Certified copies of the priority document of the priority document of the certified copies of the priority document of the certified copies of the application from the International B * See the attached detailed Office action for the certified copies of the application from the International B	ments have been received. ments have been received in A priority documents have been ureau (PCT Rule 17.2(a)).	pplication No received in this National Sta	age	
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-94 3) Information Disclosure Statement(s) (PTO-1449 or PTO/S	8) Paper No(Summary (PTO-413) s)/Mail Date nformal Patent Application (PTO-15	52)	

DETAILED ACTION

Priority

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1-3, 5, 8-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Eom (Pub. No. U.S. 2003/0053093) in view of Dwyer, III (U.S. 5,030,986).

Eom discloses an apparatus to control color registration in an image recording device, the apparatus comprising a color registration sensor including a light source (101-1, Fig. 7) that outputs light, an image sensor (photodetector 101-3) and a focusing unit (focusing lens 101-4) that that focuses the light reflected from the position detection pattern (e.g., registration mark 120) onto the image sensor.

Eom fails to teach the synthesizing unit that passes the light of the light source so as to illuminate the position detection pattern, and collects and reflects a light reflected from the position detection pattern, and the light synthesizing unit including a prism.

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Dwyer, III discloses a film printing and reading system including an image sensing device including a focal mechanism (Fig. 10) comprising a light source (901), a light receiving sensor (950) and a synthesizing unit (beam splitter 905) that passes the light of the light source so as to illuminate the position of the recording medium (940), and collects and reflects the light reflected from the recording medium and a focusing unit (lens 930) for focusing the returned light onto the light receiving sensor. Dwyer, III further teaches the light synthesizing unit including a prism (beam splitter 905).

It would have been obvious at the time the invention was made to a person having ordinary skill in the art to provide the device of Eom with the light synthesizing unit as taught Dwyer, III. The motivation for doing so would have been to allow the light receiving sensor to receive the returned light at the proper focal position.

Eom further teaches:

- the position detection pattern includes a plurality of lines that are parallel to each other (e.g., registration mark pattern 270 having a plurality of parallel lines) (Fig. 16),
- the image sensor and the light source being mounted on a same circuit board (Fig. 7).
- 4. Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over Eom in view of Dwyer, III, as applied to claim 1 above, and further in view of Sikes et al. (U.S. 6,499,402).

Eom, as modified by Dwyer, III, discloses all the basic limitations of the claimed invention except for the position detection pattern including dots of a predetermined size.

Sikes et al. discloses a system for controlling the registration of the web printing press including a CCD sensor (30) for sensing the registration pattern (110) printed on the web, the registration pattern comprising a plurality of dots printed on the web at precise locations (Fig. 5A).

It would have been obvious at the time the invention was made to a person having ordinary skill in the art to provide the registration pattern of the device of Eom having a plurality of dots as taught by Sikes et al. The motivation for doing so would have been to allow a precise control of the registration of the different color images.

Allowable Subject Matter

- 5. Claims 6 and 7 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 6. The following is a statement of reasons for the indication of allowable subject matter: the primary reason for the indication of the allowability of claims 6 and 7 is the inclusion therein, in combination as currently claimed, of the limitations "an adding unit that adds up image data of a two-dimensional image sensor in any one of the main scanning direction and the secondary scanning direction" and "a peak-position detector

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that detects a peak position in one-dimensional data that is output by the adding unit", which are not found taught by the prior art of record considered alone or in combination.

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hai C. Pham whose telephone number is (571) 272-2260. The examiner can normally be reached on M-F 8:30AM - 5:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David L. Talbott can be reached on (571) 272-1934. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

HAI PHAM PRIMARY EXAMINER

HarchiPhan

September 14, 2005